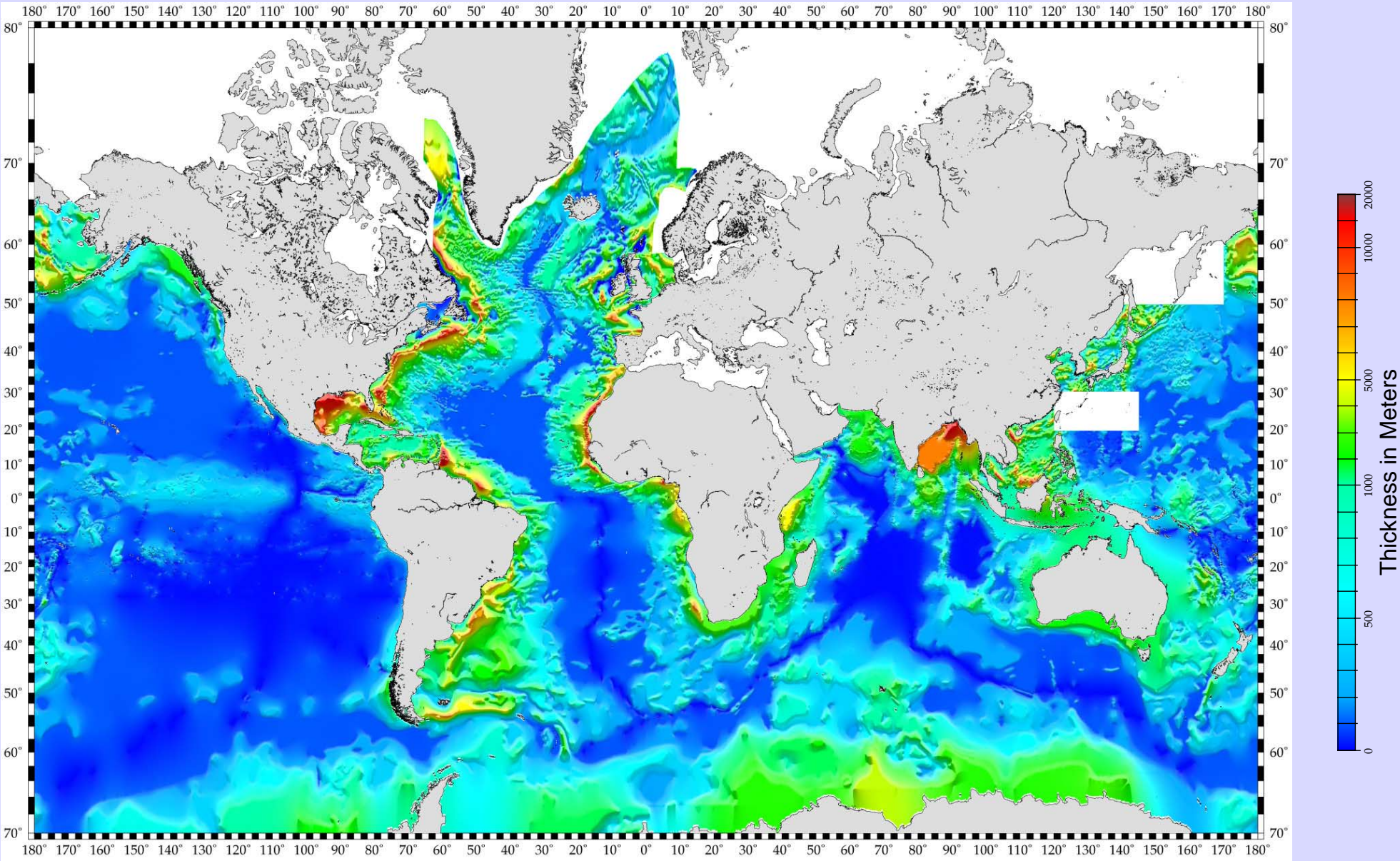


United States Department of Commerce, National Oceanic and Atmospheric Administration  
National Environmental Satellite, Data, and Information Service

National Geophysical Data Center (NGDC)



Total Sediment Thickness of the World's Oceans and Marginal Seas



A digital total sediment thickness database for the world's oceans and marginal seas is being compiled by the National Geophysical Data Center (NGDC) ,Marine Geology & Geophysics Division. The data are gridded with a spacing of 5 arc-minutes by 5 arc-minutes. Sediment thickness data were compiled from three principle sources: previously published isopach maps; ocean drilling results, both ODP and DSDP; and seismic reflection profiles archived at NGDC as well as seismic data and isopach maps available as part of the IOC's Geological/Geophysical Atlas of the Pacific (GAPA) project.

The distribution of sediments in the oceans is controlled by five primary factors:  
1) Age of the underlying crust  
2) Tectonic history of the ocean crust  
3) Structural trends in basement  
4) Nature and location of sediment sources, and  
5) The nature of the sedimentary processes delivering sediments to depocenters

The data values are in meters and represent the depth to acoustic basement. It should be noted that acoustic basement may not actually represent the base of the sediments. These data are intended to provide a minimum value for the thickness of the sediment in a particular geographic region. For further details on these data, see <http://www.ngdc.noaa.gov/mgg/sedthick/sedthick.html>

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S M T W T F S

Underlying scientific data viewable at: <http://www.ngdc.noaa.gov/ngdc.html>